PARKINSON COWAN

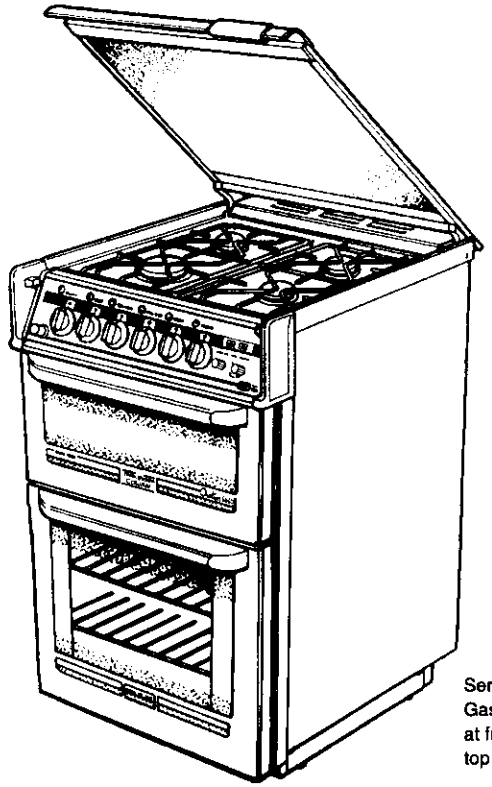
Ovation 60 GLXa **Gas Cooker**

G.C. Number: N.G. 11-550-03 WHITE L.P.G. 11-550-05
N.G. 11-550-04 BROWN L.P.G. 11-550-06

INSTALLATION AND SERVICING INSTRUCTIONS

NATURAL GAS AND L.P.GAS VERSIONS OF THIS APPLIANCE ARE AVAILABLE. CHECK THAT THIS MODEL IS SUITABLE FOR THE TYPE OF SUPPLY AVAILABLE.

IN THE INTEREST OF SAFETY THIS APPLIANCE MUST BE INSTALLED AND/OR SERVICED BY A COMPETENT PERSON AS STATED IN THE GAS SAFETY (INSTALLATION AND USE) REGULATIONS CURRENT EDITIONS.



Serial number and Gas Council number at front frame. Data badge on top rear of panel.

LEAVE THESE INSTRUCTIONS WITH THE USER.

Bordesley Green Road, Birmingham B9 4UB

Parkinson Cowan

Drg. No. 311276300/2

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TECHNICAL DATA

DIMENSIONS

	Height	*Width*	*Depth*
Height to hotplate	900mm (nominal)	600mm (nominal)	600mm (to front of door panel)

Space for fixing at hotplate level	2mm minimum clearance
Space for fixing above hotplate level	Flush-see important note 'Location of Appliance' page 4.
Minimum space above hotplate	787mm (If a cooker hood is fitted refer to the cooker hood installation instructions).
Weight of appliance	64.5kg.
Minimum distance from rear wall	5mm (spacer given by pressed spacer on vent panel).

CONNECTIONS

Gas	Rear left hand side of cooker at hotplate level. Rc½ (½" B.S.P. female).
Electric	220V/240V 50 Hz mains 3 core cable is supplied with an integral, moulded plug fitted with a 3 amp fuse.

IGNITION

Spark generator	APCO 6+1 MG 7424

GRILL

	Natural Gas	*L.P.Gas*
Heat Input	3.3kW (11263 Btu/h)	3.0kW (215 g/h)
Injector Marking	138	088

HOTPLATE

	Natural Gas			
	R.H.F.	R.H.R.	L.H.R.	L.H.F
Heat Input	1.0kW (3412 Btu/h)	2.0kW (6824 Btu/h)	2.0kW (6824 Btu/h)	2.8kW (9554 Btu/h)
Injector Marking	079	104	104	130

	L.P.Gas			
	R.H.F.	R.H.R.	L.H.R.	L.H.F.
Heat Input	1.0kW (71.85 g/h)	2.0kW (143.7 g/h)	2.0kW (143.7 g/h)	2.7kW (194 g/h)
Injector Marking	051	072	072	083

SPARE PARTS LIST

Key No.	*G.C. Part Number*	*Description*	*No. Off*	*Maker's Part Number*
19	086 385	Cavity Seal - Second Oven/Grill	1	311176209
20	086 386	Cavity Seal - Oven	1	311176208
21	074 510	Oven Light	1	305172106
22	073 003	Lamp -25W	1	359079900
40	074 730	F.S.D/Solenoid Valve Assembly - Diamond 'H' GSD.201	1	359070600
40G	379 883	F.S.D/Solenoid Valve Assembly - Diamond 'H'GSD.210 LPG	1	359070601
45	379 484	Oven Electrode - Derlite	1	311247201
58	379 484	Oven Electrode - Derlite - Second Oven	1	311247201
63	378 282	F.S.D. - Diamond 'H' GSD 100/31- Second Oven	1	359061500
63G	379 882	F.S.D. - Diamond 'H' Ref. GSD.100-34 (2nd Oven) LPG	1	359061501
69	379 484	Grill Electrode - Derlite	1	311247201
87	074 529	Oven Loose Roof	1	359001005
92	074 782	Grill Pan Weld Assembly	1	359027703
93	074 783	Grill Pan Removable Handle Assembly	1	359029000
103	378 294	Spark Generator - APCO 6+1 MG 7424	1	311223500
	086 387	L.T. Mains Cable Harness	1	311275900
110	074 788	H.T. Cable Harness - Hotplate	1	359070200
111	074 938	H.T. Cable - Grill	1	359006000
112	074 952	H.T. Cable - Oven/Second Oven	2	359038301
142	379 880	Timer - Eaton EL191/205	1	311275300
145	378 267	Tap - Hotplate -Simmer - Sourdillon 60032/884	1	359009202
145G	379 875	Tap - Hotplate -Simmer - Sourdillon LPG 60522/884	1	359009207
146	378 266	Tap - Hotplate -Normal - Sourdillon 60031/884	2	359009204
146G	379 876	Tap - Hotplate -Normal - Sourdillon LPG 60521/884	2	359009209
147	378 265	Tap - Hotplate -Rapid - Sourdillon 60029/884	1	359009203
147G	379 877	Tap - Hotplate -Rapid - Sourdillon LPG 60520/884	1	359009208
148	378 295	Thermostat - Dual Control Sourdillon 60112/982	1	359009500
148G	379 879	Thermostat - Dual Control Sourdillon LPG 60525/982	1	359009501
152	378 296	Thermostat (With Switch) - Diamond 'H' 110095/B2	1	359061600
152G	377 884	Thermostat (With Switch) - Diamond 'H' LPG 1100-100/B2	1	359061601
153	378 298	Thermostat Switch - ITW.H2.E882	1	359071900
172	378 283	Hotplate Electrode	4	311193200
181	379 885	Shut Off Valve	1	311277700
207	074 560	Burner Cap - Rapid	1	354000604
208	074 561	Burner Cap - Normal	2	354000603
209	074 562	Burner Cap - Simmer	1	354000602
267	395 879	Ignition Switch - Pedoka/Rold E.2012	1	359011500
268	073 873	Switch Push Button (Brown)	1	359021600
269	073 551	Switch Push Button (White)	1	359021601

NOTE: Failure to use manufacturers original spares could negate normal BSI approval of the product.

W. REMOVAL OF HOTPLATE ELECTRODE

1. Pull forward and disconnect from gas and electricity supply.
2. Remove fascia panel and hotplate tray (see Sections A and B).
3. Disconnect H.T. lead from electrode.
4. Insert an electrical screwdriver down between the underside of the burner body and the electrode securing clip, push the screwdriver down to close the clip and withdraw. Then remove the electrode (see Fig.19).
5. Reassemble in reverse order ensuring electrode is correctly positioned and is secure.

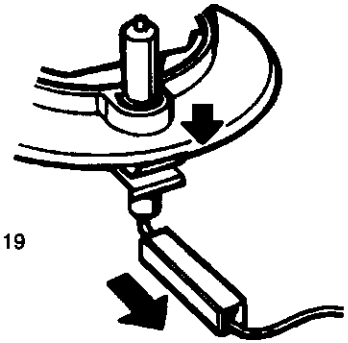


Fig.19

X. REMOVAL OF MAIN OVEN ELECTRODE

1. Disconnect from electricity supply.
2. Remove the oven furniture.
3. Remove oven burner box front cover by removing the box retaining clips (one spring clip from each side) and remove the box front cover. Replace one clip on the right hand side.
4. From inside the oven unscrew the oven electrode fixing screw and pull off the H.T. wire. Take care that the H.T. lead is retained, otherwise it may become inaccessible.
5. Reassemble in reverse order.

Y. REMOVAL OF SECOND OVEN ELECTRODE

1. Disconnect from electricity supply.
2. Remove oven furniture.
3. Remove oven burner box front cover (Section H, para . 5-7). Replace clip in right-hand side to secure box.
3. From inside the oven unscrew the oven electrode fixing screw and pull off the H. T. wire. Take care that the H. T. lead is retained, otherwise it may become inaccessible.
4. Reassemble in reverse order.

Z. REMOVAL OF GRILL ELECTRODE

1. Disconnect from electricity supply.
2. Open grill door and remove furniture.
3. Disconnect H. T. lead from grill electrode (rear left of grill).
4. From inside the grill unscrew the electrode fixing screw and remove the electrode.
5. Reassemble in reverse order.

MAIN OVEN	*Natural Gas*	*L.P.Gas*
Heat Input	2.4kW (8189Btu/h)	2.4kW (172.4 g/h)
Injector Marking	108	078
Flame Supervision Device	Diamond'H' GSD 201	Diamond 'H' GSD 210
Thermostat	Diamond'H' 1100-95/B2	Diamond 'H' 1100-01/B2
Thermostat By-Pass Marking	71	79

SECOND OVEN	*Natural Gas*	*L.P.Gas*
Heat Input	2.4kW (8189 Btu/h)	2.4kW (172.4 g/h)
Injector Marking	108	078
Flame Supervision Device	Diamond 'H' GSD 100/31	Diamond 'H' GSD 100/34
Dual Control	Sourdillon 60112/982	Sourdillon 60525/952
Dual Control By-pass	0.53kW (1808 Btu/h)	0.62kW (445 g/h)

GENERAL	
Ignition	H. T. Spark
Spark Gap	3-4mm

IMPORTANT - SAFETY REQUIREMENTS

This appliance must be installed in accordance with the Gas Safety (Installation and Use) Regulations Current Editions and the I.E.E. Wiring Regulations. Detailed recommendations are contained in the following British Standard Codes of Practice - BS.6172, BS.5440: Part 2 and B.S.6891. All British Standards must be 'Current Editions'.

PROVISION FOR VENTILATION

The room containing the appliance should have an air supply in accordance with BS.5440: Part 2 Current Edition. All rooms require an openable window or equivalent and some rooms will require a permanent vent as well. For room volumes up to $5m^3$ an air vent of 100 cm^2 is required; for room volumes between $5m^3$ and $10m^3$ an air vent of $50cm^2$ is required. If the room has a door that opens directly to the outside, no air vent is required. For room volumes that exceed $11m^3$ no air vent is required. If there are other fuel burning appliances in the same room, BS.5440: Part 2 Current Edition should be consulted to determine the requisite air vent requirements.

LOCATION OF APPLIANCE

This appliance must not be installed in a bed-sitting room of volume less than 20m³ or in a bathroom or shower room. It is essential that the appliance is positioned as stated below (see Fig. 1a)) i.e. shelves, wall cabinets and cooker hoods must be fitted a minimum of 787mm directly above the top of hotplate and 400mm above the hotplate when fitted in line with the outside of the appliance. If the units are intended to be fitted adjacent to the appliance but less than 400mm above the hotplate, then a minimum space of 100mm must be maintained between the sides of the unit and the appliance (see Fig.1b). Curtains must not be fitted immediately behind the appliance or within150mm of the sides of the hotplate. If fitted next to or between two base units a minimum space of 1mm must be left between each unit and the sides of the appliance. The levelling feet fitted to the appliance will achieve a nominal height to hotplate trims of 900mm - 2mm +20mm.

If the appliance needs to be higher that 920mm, then an optional height adjustment kit is available which will raise the appliance to a nominal height of 945mm (wheels kit no. 359079800 G.C. No 074 498).

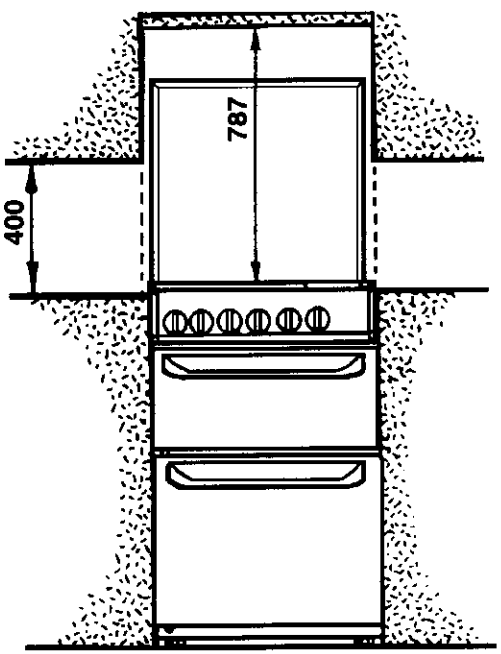


Fig.1a

All dimensions in mm

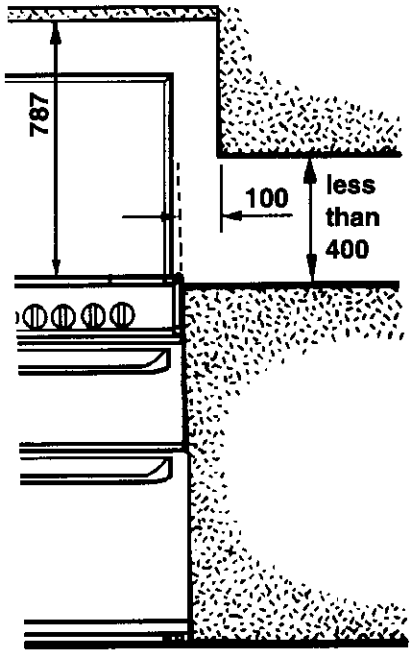


Fig.1b

R. LID STOP SETTING

FRONT

1. Prise out the fascia end cap cover plates (one each side) from fascia end caps (see Fig.6a).
2. With lid closed slacken off two screws holding lid stops on insides of fascia end caps.
3. Adjust lid stops until satisfactory lid position is obtained.
4. Tighten up lid stop screws ensuring stops do not move.

REAR

1. With lid open slacken off screw holding lid stop situated on lid hinge mechanism bracket on rear right hand of appliance (see Fig.16).
2. Rotate stop until satisfactory lid position is obtained i.e. 90 degrees +3 deg -0 deg.
3. Tighten up lid stop screw ensuring lid stop does not move.

S. REMOVAL OF GRILL BURNER

1. Remove hotplate tray (see Section B).
2. Open grill door and remove furniture.
3. From inside cavity remove two spring clips from flow diverter plate and lift off (see Fig.8).
4. Disconnect H.T. lead from grill electrode (rear left of grill).
5. From on top of grill cavity remove the two outer screws securing the grill burner. Support burner pull venturi forward and feed venturi and assembly downwards into cavity.
6. Reassemble in reverse order ensuring that burner is correctly located.

T. REMOVAL OF IGNITION SWITCH

1. Disconnect from electricity supply.
2. Remove fascia panel (see Section A).
3. Remove one screw retaining the switch bracket to the fascia. Remove bracket.
4. Push in switch tags and remove switch from bracket (see Fig.17).
5. Reassemble new switch in reverse order. Rewire as Wiring Diagram (see page 13).

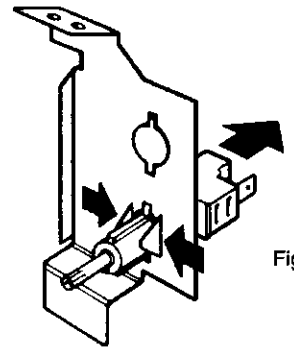


Fig.17

U. REMOVAL OF SPARK GENERATOR

1. Pull appliance forward and disconnect from the gas and electricity supply.
2. From the rear of the appliance remove one screw from the left hand of the electrics cover. Remove cover.
3. Pull off all the connections from the spark generator.
4. Remove the two screws and remove the generator.
5. Reassemble in reverse order. Rewire as Wiring Diagram ensuring leads do not become trapped (see page 13).

V. REMOVAL OF MAIN OVEN LAMP

1. Disconnect from electricity supply.
2. Open main oven door and remove furniture.
3. Remove the lamp lens cover (see Fig.18).
4. Unscrew old/faulty bulb.
5. Replace with new bulb.
6. Reassemble in reverse order.

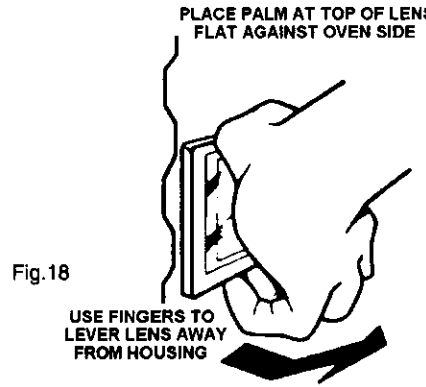


Fig.18

O. REMOVAL/REPLACEMENT OF OVEN DOOR SEAL

1. Remove side trims and slacken the edge strip securing screws (see Section 'C', items 3 & 4).
2. Remove oven front frame (four screws, two each side).
3. Pull off seal from front frame, noting the position of the seal flange. Refit seal starting at the point shown in Fig.15 ensuring that the seal flange is evenly secured behind the front frame.
4. Replace in reverse order, ensuring that the cavity top clip and support clip are fitted. (Fig.15a).

Fig.15

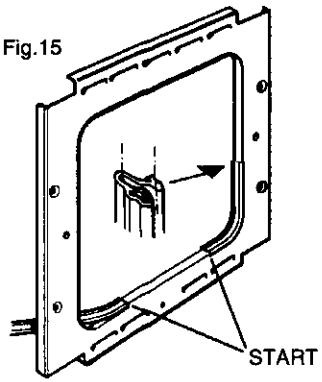
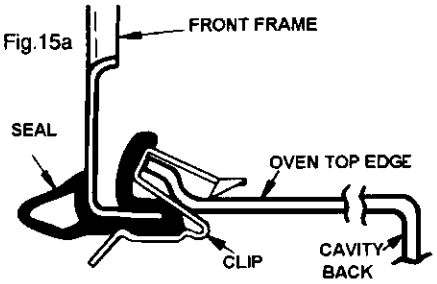


Fig.15a



P. REMOVAL/REPLACEMENT OF SECOND OVEN DOOR SEAL

1. Remove grill door.
2. Remove oven front frame (four screws, two each side).
3. Pull off seal from front frame, noting the position of the seal flange. Refit seal starting at the position shown in Fig.15 ensuring that the seal flange is evenly secured behind the front frame.
4. Replace in reverse order. Take care when replacing front frame not to damage the side trims.

Q. REMOVAL OF GLASS LID

1. Pull appliance forward and disconnect from gas supply.
2. Close lid.
3. Remove vent panel by slackening two securing screws at rear and lifting off.
4. From rear of appliance push electrical screwdriver through hole in left hand lid hinge bracket and through spindle (see Fig.16).
5. Remove lid assembly by slackening the two top screws and removing the two bottom screws from the lid mechanism brackets, and lift and pull through key hole slots in the mechanism brackets.
6. Place lid assembly on flat surface and remove mechanism bracket assemblies from both sides by removing the screw in each lid hinge as arrowed (see Fig.16). Ensure fibre washers on ends of spindle are retained for reassembly.
7. Reassemble in reverse order.
9. Check operation of lid cut off device section 9, page 8.

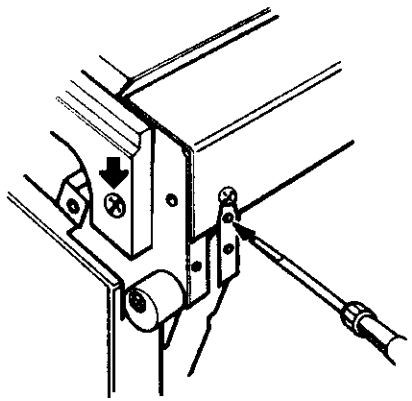


Fig.16

INSTALLATION

1. PARTS REQUIRED

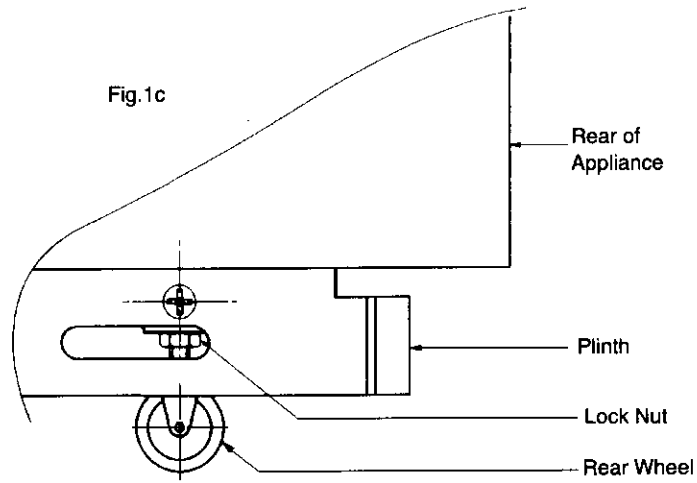
The loose hotplate parts are packed in the polystyrene fitment on top of the hotplate.

2. LEVELLING THE APPLIANCE

If the appliance requires levelling or its height adjusting (from the hotplate to any working surface), the procedure below must be followed:

1. Loosen the lock nuts securing the rear wheels, using a 13mm spanner. Access to these lock nuts can be gained through a slot in the rear of the plinth, as shown in Fig.1c.
2. Adjustment to suit floor conditions or height is obtained by rotating clockwise or anticlockwise the hexagonal feet/wheels, at the front and rear of the appliance.
   NOTE: The rear wheels must only be rotated through half or whole turns.
3. A spirit level should be placed on the cake tray on one of the oven shelves to confirm the appliance is correctly levelled.
4. Once the appliance is at the correct height and levelled, the rear wheel should be locked into position by means of the lock nuts, having first made sure the wheels are once again parallel to the side of the appliance.

Fig.1c



3. FITTING THE STABILITY BRACKET

It is recommended that if the appliance is to be installed with a flexible supply pipe a stability bracket (SK.4729.A) is fitted and is available from your supplier (see Important Safety Requirements, Page 3). These instructions should be read in conjunction with the leaflet packed with the stability bracket.

1. Place the appliance in its intended position and level appliance.
2. Mark off 300mm from the left hand side of the appliance as shown in dimension 'A', Fig 2a. This is the centre line of the fixing bracket.
3. Draw a line 100mm from the front edge of the levelling feet (see Fig.2a) and remove appliance from its position. Mark off dimension 'B' (see Fig.2a) back from this line on the centre line of the bracket to locate the front edge of the lower bracket. Fix lower bracket (with two fixing holes) to the floor then measure the height from floor level to engagement edge on back of appliance, dimension 'C' of Fig.2b.
4. Assemble upper bracket to lower bracket so that underside of bracket is dimension 'C' +3mm above floor level.

Reposition appliance and check that top bracket engages into appliance back as shown in Fig. 2b.

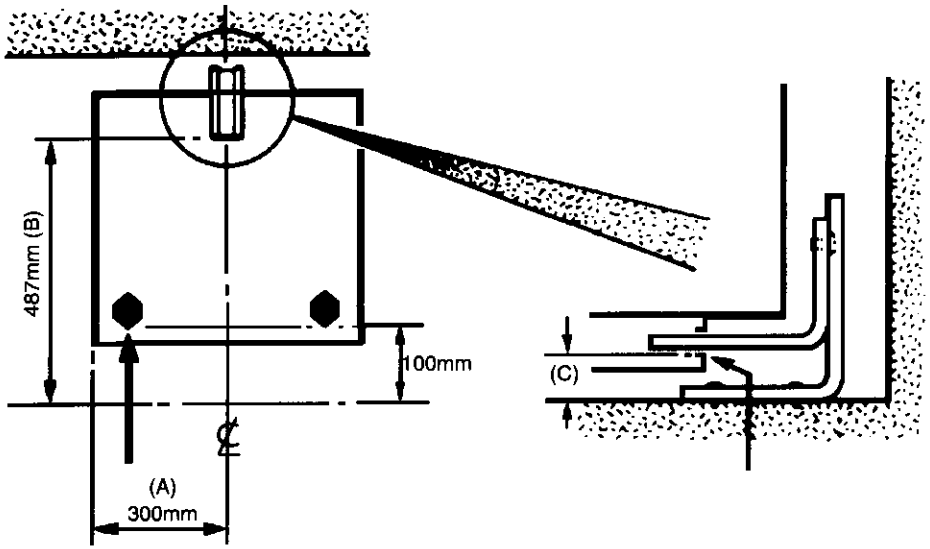


Fig.2a

Fig.2b

I. REMOVAL OF TIMER

1. Disconnect from electricity supply.
2. Remove fascia panel (see Section A).
3. Remove two timer knobs.
4. Remove two screws from timer bracket securing timer to fascia assembly.
5. Remove fascia top trim. (One screw each end).
6. Lift out timer assembly.
7. Push in two tags (one each side of timer) and remove bracket.
8. Fit new timer in reverse order. Rewire as Wiring Diagram (see page 13).

J. REMOVAL OF LID SHUT OFF VALVE

1. Pull appliance forward and disconnect from gas and electricity supply.
2. Remove fascia panel and hotplate (see Sections A and B).
3. Remove flexible supply pipe from valve.
4. Disconnect both gas rail connections from the valve block assembly.
5. Remove two 3mm allen head set screws securing valve block assembly to top rear panel.
6. Ease valve block off gas rail pipes.
7. Reassemble in reverse order and check for gas leaks and correct operation of lid cut off device (see Section 9).

K. REMOVAL OF OVEN DOOR ASSEMBLY

1. Pull appliance forward to gain access to the side trims.
2. Remove the left hand side trim. (see section C item 3).
3. Slacken the two screws securing the top door hinge.
4. Open the door.
5. Whilst supporting the door ease the top hinge off the screws and lift the top door off the bottom hinge.
6. Replace the door in reverse order.

L. REMOVAL OF GRILL/ SECOND OVEN DOOR

1. Open door fully.
2. Engage both hinge tags on to hooks in hingearms (see Fig.13).
3. To remove the door, clear the hinges by raising the door slightly whilst pulling towards you.
4. Reassemble in reverse order.

NOTE: Ensure hinges are fully located, open door to release hinge tags.

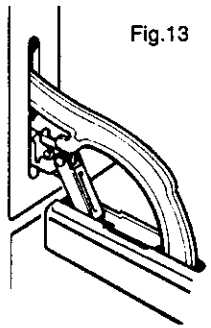


Fig.13

M. REMOVAL OF EITHER MAIN OR TOP OVEN DOOR GLASS

1. Remove the two screws from top door edge.
2. Gently pull outer glass and lift upwards out of bottom locators.
3. Reassemble in reverse order ensuring bottom locators are correctly positioned.

NOTE: Take care not to lose the door edge seals on the top oven.

N. REMOVAL OF OVEN DOOR HANDLES

1. Follow Section M, items 1, and 2.
2. Then place the door on a flat surface and remove four screws retaining the door handle (see Fig.14). Reassemble in reverse order.

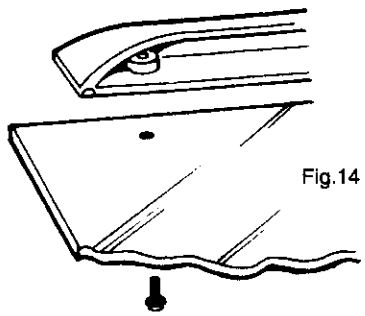


Fig.14

G. REMOVAL OF MAIN OVEN BURNER/SOLENOID/ FLAME SUPERVISION DEVICE

1. Pull appliance forward and disconnect from gas and electricity supply.
2. Remove fascia panel and left hand side panel (see Sections A and C).
3. From the rear of the appliance remove one screw from left hand side of the electrics cover. Remove cover.
4. Disconnect leads from solenoid valve.
5. Feed lead through hole in back panel and release from twist tie securing lead to plinth.
6. Remove the oven furniture.
7. Remove the oven burner box retaining clips (one spring clip from each side) and remove the box front cover.
8. Replace spring clips to secure burner box.
9. From inside the oven aperture disconnect supply pipe from the solenoid/flame supervision device (see Fig.11).
10. Remove the spring clips.
11. Remove the assembly from within the oven disconnecting the H.T. lead from the oven electrode. This is best done by moving the burner assembly as far left as possible before lifting the right side of the assembly clear of the aperture.
12. Reassemble in reverse order ensuring that F.S.D. phial is correctly positioned. Rewire as Wiring Diagram (see page 13).
13. Check for gas leaks.

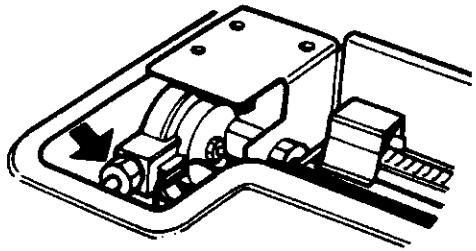


Fig.11

H. REMOVAL OF SECOND OVEN BURNER/FLAME SUPERVISION DEVICE

1. Pull appliance forward and disconnect from gas and electricity supply.
2. Remove fascia panel and right hand side panel (see Sections A and C).
3. From right hand side of appliance disconnect top union from F.S.D. (see Fig.12).
4. Remove oven/grill furniture.
5. Remove spring clip from right hand side of phial cover, lift off cover and unclip thermostat phial. Move phial away from burner assembly.
6. Remove flow diverter plate (see Section E4).
7. Remove the oven burner box retaining clip from each side and lift off the box front cover.
8. From inside the oven carefully remove box assembly so that it drops through the oven aperture and rests on the main cavity. Ease oven burner and F.S.D. assembly outwards from the right hand side of the appliance.
9. Unclip F.S.D. phial from bracket.
10. Disconnect F.S.D. from oven pipe.
11. Reassemble in reverse order. Ensure that the tag on the thermostat phial cover plate is correctly located into the relevant burner box hole.
12. Check for gas leaks before replacing the side panel.

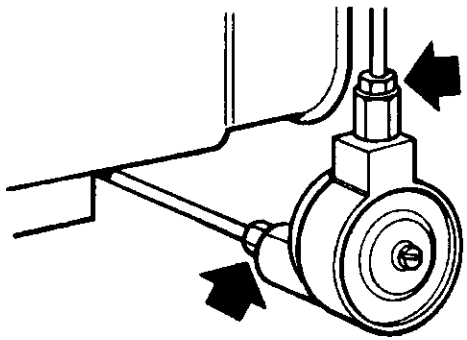


Fig.12

4. CONNECTING TO GAS

This appliance is designed to be installed with an appliance flexible connection only. (The flexible supply pipe must be suitable for use at 70° above ambient). Supply piping should not be less that R³/₈. Connection is made to the Rc ½ (½" B.S.P.) female threaded entry pipe located just below the hotplate level on the rear left hand side of the appliance. **NOTE: ONLY LIQUID SEALANTS TO BE USED WHEN INLET GAS PIPE IS FITTED TO SHUT OFF VALVE I.E.: DO NOT USE P.T.F.E. SEALANT TAPE.** Check for gas soundness after connecting to the gas supply.

The gas bayonet connector must be fitted in the shaded area indicated in Fig.3. Take into account that it must be possible to pull the appliance forward sufficiently. The hose must not get caught on the stability bracket.

IMPORTANT: FLEXIBLE TUBING USED MUST COMPLY WITH BS. 669 CURRENT EDITION.

L.P.G. FLEXIBLE CONNECTIONS MUST BE OF A TYPE SUITABLE FOR L.P.G. AND CAPABLE OF OPERATION UP TO 50 mbar AND TO CARRY A RED STRIPE, BAND OR LABEL.

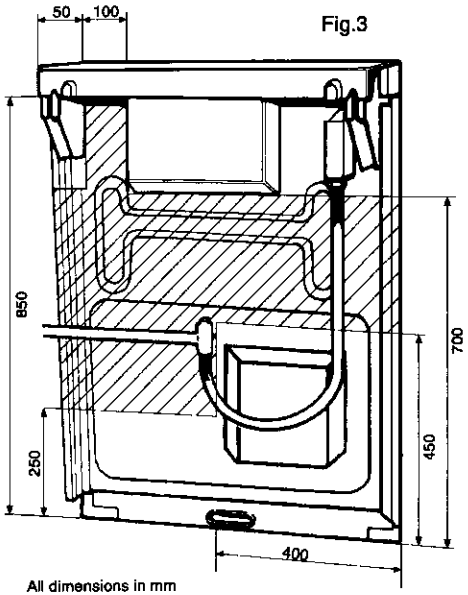


Fig.3

All dimensions in mm

5. CONNECTION TO THE ELECTRICITY SUPPLY

WARNING: THIS APPLIANCE MUST BE EARTHED. DO NOT EARTH THIS APPLIANCE TO THE GAS SUPPLY PIPING.

This appliance must be connected to 220V-240V A.C. 50Hz supply. It is supplied with 2 metres of 5 amp 3 core cable incorporating a moulded 13 amp plug , fitted with a 3 amp fuse, which can be plugged directly into the nearest suitable socket. If this is not long enough, the supply cable can be either:-

(i) Replaced totally by a longer cable at least 0.75mm² nominal cross sectional area (24/0.2mm).

(ii) Extended by using a B.E.A.B. approved 3-way sealed flex connector with integral flex clamps.

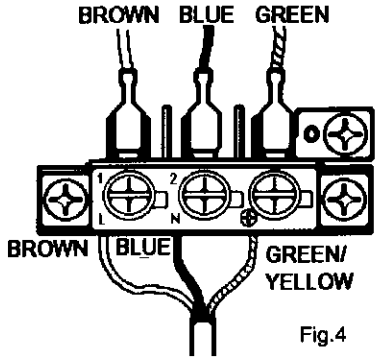


Fig.4

IF THE MOULDED PLUG IS CUT FROM THE CABLE FOR ANY REASON, IT MUST BE DESTROYED OR DISPOSED OF SAFELY, AS THE PROTRUDING WIRES WILL BE AN ELECTRIC SHOCK HAZARD.

If any other type of plug is used it should incorporate a 5 amp fuse in either the plug or adapter or at the distribution board.

If the cable has to be threaded through small apertures in cabinets etc., it may be disconnected from the appliance, then re-connected to as shown in Fig.4.

DO NOT EXTEND THE CABLE USING PLASTIC OR CERAMIC CONNECTION TERMINAL BLOCKS AND/OR INSULATION TAPE.

ALL EXTERNAL WIRING BETWEEN THE APPLIANCE AND THE ELECTRICAL SUPPLY SHALL COMPLY WITH I.E.E. WIRING REGULATIONS.

If the wiring is extended or a completely new cable fitted a 3-pin 13 amp plug should be fitted. (See Fig.4a).
Connect the wires as follows:

BROWN to the Live Terminal.
BLUE to the Neutral Terminal.
GREEN and YELLOW to the Earth Terminal.

As the colours of the wires in the mains lead which you fit may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is GREEN and YELLOW must be connected to the terminal in the plug which is marked with the letter 'E' or by the earth symbol ⏚ or coloured GREEN or GREEN and YELLOW.

The wire which is coloured BLUE must be connected to the terminal which is marked with the letter 'N' or coloured BLACK.

The wire which is coloured BROWN must be connected to the terminal which is marked with the letter 'L' or coloured RED.

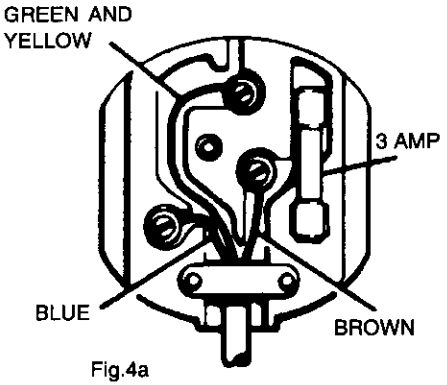


Fig.4a

FIT A 3 AMP FUSE TO THE PLUG HOLDER.

Ensure that the supply cable cannot get caught by the stability bracket. **Plug in the appliance**. In the event of a electrical fault refer to the Preliminary Electrical Systems Check on pages 10 and 11.

6. PRESSURE TESTING

1 The oven injector is used as a pressure test point.
Remove the oven furniture. Remove oven burner box retaining clips (one spring clip from each side) and remove box front cover. Replace one clip back into the right hand side of the burner box.
Remove oven burner by removing the spring clip from the right hand side of the oven burner and slide burner off injector whilst easing it forward and taking care not to strain the F.S.D. phial.

2. Connect the pressure gauge to the oven injector.
3. Check the supply pressure by turning the thermostat on and one hotplate tap full on and light the appropriate burner. The pressure should be either:-

(i) For Natural Gas	20mbar
(ii) For LP.Gas	The pressure must be set to 28 mbar for use on butane or 37 mbar for use on propane.

4. Turn off the taps, disconnect the pressure gauge and replace oven burner and cover, ensuring that the F.S.D. phial is correctly located into the bracket on the burner.
5. Check operation of oven.

7. CHECKING THE GRILL

Place the grill pan containing the trivet into the grill compartment. Light the grill burner by turning the grill tap to its full on position and pushing the ignition button. As soon as the burner is lit the button can be released. If there is a fault refer to Fault Finding Guide on Page 15.

8. CHECKING THE HOTPLATE

Lift the lid. Fit the burner crowns and caps ensuring that they are correctly seated. Fit the pan supports. Check each of the hotplate burners in turn by turning the hotplate tap to it's full on position and pushing the ignition button. As soon as the burners are lit the button can be released. If there is a fault refer to Fault Finding Guide on Page 15.

9. CHECKING LID SHUT-OFF DEVICE

1. Lift the lid.
2. Turn one hotplate burner tap to its full on position and push the ignition button.
3. Close lid. There should now be no gas supply to the hotplate and the burner will go out.
4. Turn off the hotplate tap and lift the lid. The gas supply should now be restored to the hotplate. When the tap is turned on.

4. From inside the oven remove two spring clips from the flow diverter plate and lift off (see Fig.8).
5. Remove the spring clip from the right hand side of the phial cover. Lift off cover.
6. Unclip phial and feed through gap at rear left hand side of oven burner aperture.
7. Disconnect the oven and grill supply pipes from the control body.
8. Remove two bolts from saddle bracket securing control to the gas rail and remove control assembly.
9. Remove circlip retaining cam on control spindle. Transfer cam to new control.
10. Re-assemble in reserve order ensuring that:-
    a) The seal is correctly fitted between the control and the gas rail.
    b) The damper actuating rod is correctly positioned (see Fig.9). This is best achieved by locating within the cam before assembly to the appliance.
    c) The thermostat phial is correctly fitted in the oven clip.
    d) The spindle is in line with the two adjacent spindles on the gas rail.
    e) Ensure that the bottom edge of the flow diverter plate is positioned prior to assembly.
11. Check for gas leaks before replacing the hotplate and fascia panel.

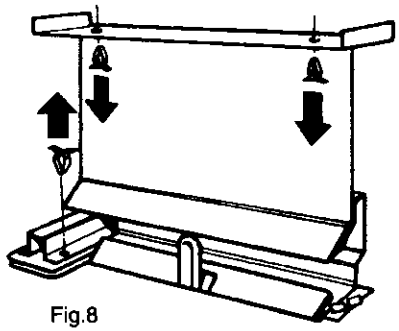


Fig.8

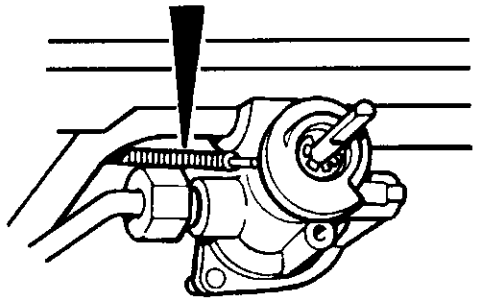


Fig.9

F. REMOVAL OF HOTPLATE TAP

1. Pull appliance forward and disconnect from gas and electricity supply.
2. Remove fascia panel and hotplate tray (see Sections A and B).
3. Disconnect the supply pipe from the rear of the tap (see Fig.10).
4. Remove the two screws securing the tap to the gas rail and remove saddle bracket and tap.
5. Reassemble in reverse order ensuring that a new seal is correctly fitted.
6. Check for gas leaks before replacing the hotplate and fascia panel.

NOTE: Gas taps are colour coded with a line at the rear of the tap. LPG taps also have a black line.

NORMAL - Yellow
RAPID - Red
SIMMER - Green

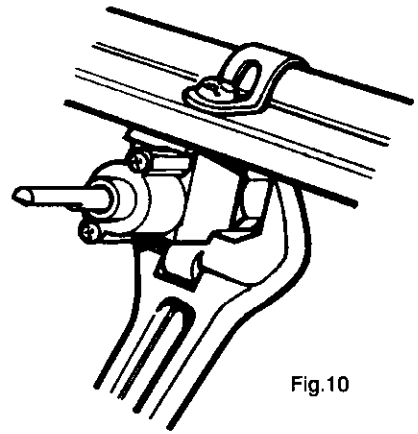


Fig.10

B. REMOVAL OF HOTPLATE TRAY

1. Pull appliance forward, and disconnect from gas and electricity supply.
2. Remove fascia panel (see Section A).
3. Remove pan supports, burner crowns and burner caps.
4. Remove lid and vent panel assembly by slackening the two top screws and removing the two bottom screws from the lid mechanism brackets.
5. Remove two screws securing rear of hotplate, and remove the side trims.
6. Lift hotplate at the rear and disengage from the front locators.
7. Reassemble in reverse order ensuring hotplate engages in front locators and hotplate burner bodies are correctly located in tray before securing hotplate.

NOTE: Take care not to damage the hotplate electrodes when refitting hotplate.

C. REMOVAL OF SIDE PANEL

1. Pull appliance forward and disconnect from gas supply.
2. Remove fascia panel (see Section A).
3. With a fine screwdriver or penknife acting on the rear flange gently prise off the side trim at positions, A.B. and C. (see Fig .7).
4. Remove four screws from edge strip (note the position of the screws) and remove strip.
5. Remove the two screws at the rear of the side panel and lift off the side panel.
6. Reassemble in reverse order ensuring that:-
   a) The side panel bottom flange is located over the plinth tags.
   b) The side trim is located at the front first and then pushed into place at the rear.

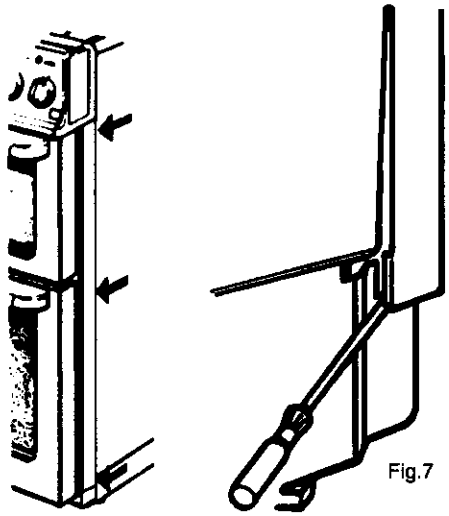


Fig.7

D. REMOVAL OF MAIN OVEN THERMOSTAT

1. Pull appliance forward and disconnect from gas and electricity supply.
2. Remove fascia panel, hotplate tray and right-hand side panel (see Sections A, B and C).
3. Remove oven furniture and loose oven roof. Unclip thermostat phial and feed the phial through the hole in the oven.
4. Disconnect the oven supply pipe from the thermostat body
5. Disconnect leads from thermostat front switch.
6. Remove two screws and saddle bracket securing thermostat to the gas rail and remove thermostat assembly.
7. Transfer front switch to new thermostat.
8. Reassemble in reverse order ensuring that:-
   a) A new seal is correctly fitted between the thermostat and the gas rail.
   b) The thermostat phial is securely fitted and central in the oven clips.
9. Rewire as wiring diagram (see page13).
10. Check for gas leaks before replacing the hotplate and fascia panel.

E. REMOVAL OF SECOND OVEN/GRILL CONTROL

1. Pull appliance forward and disconnect from gas and electricity supply.
2. Remove fascia panel, hotplate tray and left hand side panel (see Sections A, B and C).
3. Remove oven/grill furniture.

10. CHECKING THE MAIN OVEN CONTROLS

TO SET THE TIME OF DAY (see Fig.5)

1. Turn on the electricity supply and ensure that the thermostat is in the off position.

1a. Before setting timer read important note below.

2. Rotate the left hand clock knob to manual and back to the clock position.
3. Set the time of day by rotating the right hand knob. Note that it is a 24 hour clock.
4. Rotate the left hand clock knob back to the manual position.

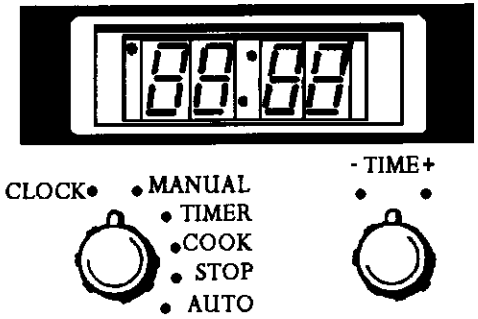


Fig.5

NOTE: When setting the time of day with the selector knob in the clock position only, this will activate the timer for seven seconds after selection. This means that when setting the time of day in this function the time can only be set by using the right hand knob within a seven second period.

After seven seconds have elapsed from when the correct time of day has been set, the timer ceases to be active and subsequent operation of the right hand knob will not change the time setting.

When the right hand knob is turned anti-clockwise after the seven second delay period, a choice of three audible signals are available. To select the choice of signal required rotate knob anti-clockwise and release. Repeat procedure to choose desired signal.

11. CHECKING THE MAIN OVEN

1. Set the clock as described above, the clock is now ready for manual operation.
2. Turn the main oven thermostat to Mk.9 and check that there is sparking from the ignition system. This should continue until the oven burner is alight. If ignition does not work refer to Fault Finding Guide on page 16.
3. When the oven burner lights up the sparking should cease, there should be a low gas rate at first to the oven burner which is the flame supervision device (F.S.D.) by pass rate.
4. When the F.S.D. phial has heated up it opens the F.S.D. valve and the main gas stream flows to the burner.
5. Set the oven thermostat to Mk.2, close the oven door and check that after about 10 minutes the flame has reduced in size.
6. Turn off the thermostat and check that the oven flames go out.

12. AUTOMATIC OPERATION

Having set the clock up as described above, turn the left hand knob to the 'cook' position and set the right hand knob to show a cooking time of two minutes (0.02).

Turn the left hand knob to the 'stop' position; the time shown on the display is now the time of day with two minutes added on. Rotate the right hand knob to add two minutes to this time to give a two minute delay.

Turn the left hand knob to the 'auto' position to complete the programming sequence, the clock now shows the time of day again with 'auto' glowing continuously.

Turn the oven thermostat on and two minutes after setting, the oven burner should commence its lighting sequence.

Two minutes after the lighting sequence has started the timer should cut off the gas supply to the oven burner and the audible signal should sound. The signal is continuous it may be switched off at any time by rotating the left hand knob.
Return timer to manual by rotating the left hand knob to the 'manual' position.

13. CHECKING THE SECOND OVEN

1. Turn the second oven thermostat control knob anticlockwise to Mk8 and press the ignition button. As soon as the burner is alight the button can be released. If there is a fault refer to Fault Finding Guide on Page 15.
2. When the oven burner lights up there should be a low gas rate at first to the oven burner which is the F.S.D. by-pass rate.
3. When the F.S.D. phial has heated up it opens the F.S.D. valve and the main gas stream flows to the burner.
4. Set the oven control to Mk. 2, close the oven door and check that after approx. 10 minutes the flame size has reduced.
5. Turn off the control knob and check that the oven flames go out.

14. CHECKING THE MAIN OVEN LIGHT

Turn the main oven thermostat knob full on and check that the main oven light is operative. Turn off the thermostat. If there is a fault refer to the Fault Finding Guide on page 15.

GENERAL NOTE

Instruct the user on how to use the appliance and its ignition system. Refer the user to the wording in the inside cover of the Users Instructions which gives advice on the safe operation of the appliance.

SERVICING INSTRUCTIONS

SERVICING NOTES

NOTE: Turn off gas supply before servicing any gas carrying components. After servicing turn on gas and check for gas soundness. After servicing ensure that the serviced components and appliance operate correctly.

A. REMOVAL OF FASCIA PANEL

1. Disconnect from electricity supply and pull appliance forward to gain access to the side of the fascia.
2. Remove gas control knobs and springs.
3. Prise out the fascia end cap cover plates (one each side) from fascia end caps (see Fig. 6a).
4. Remove four screws (two each side) which are now visible in the fascia end caps and two screws located under the fascia panel (see Fig. 6c).
5. Lift off fascia panel and disconnect all wiring from fascia panel.
6. Replace in reverse order. Rewire as wiring diagram taking care that wiring is fed behind fascia and does not become trapped.

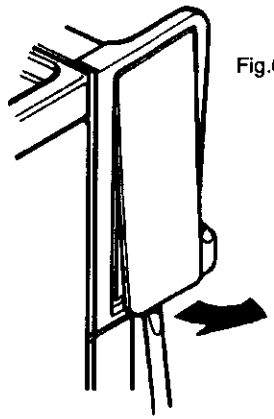


Fig.6a

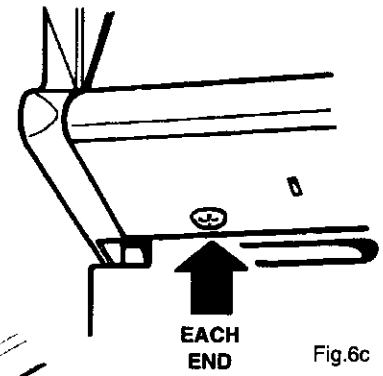


Fig.6c

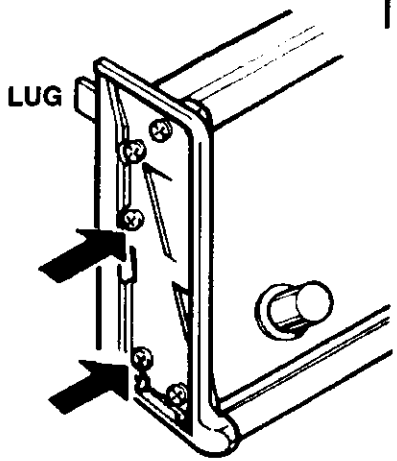


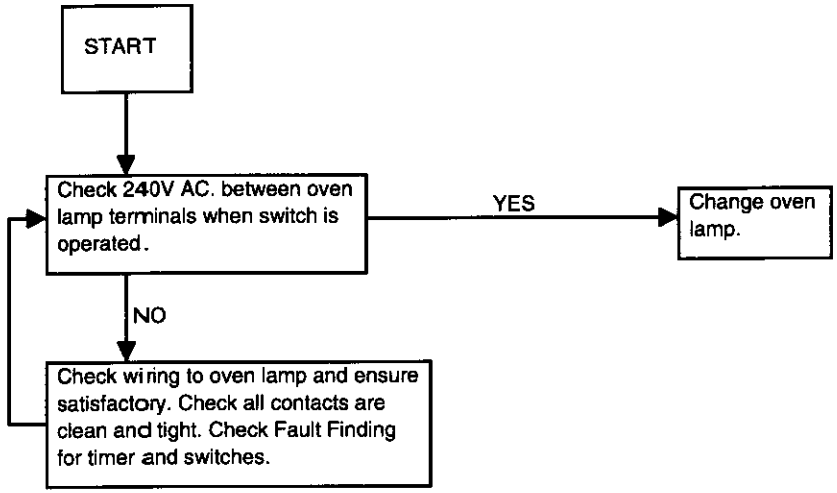
Fig.6b

NOTE:

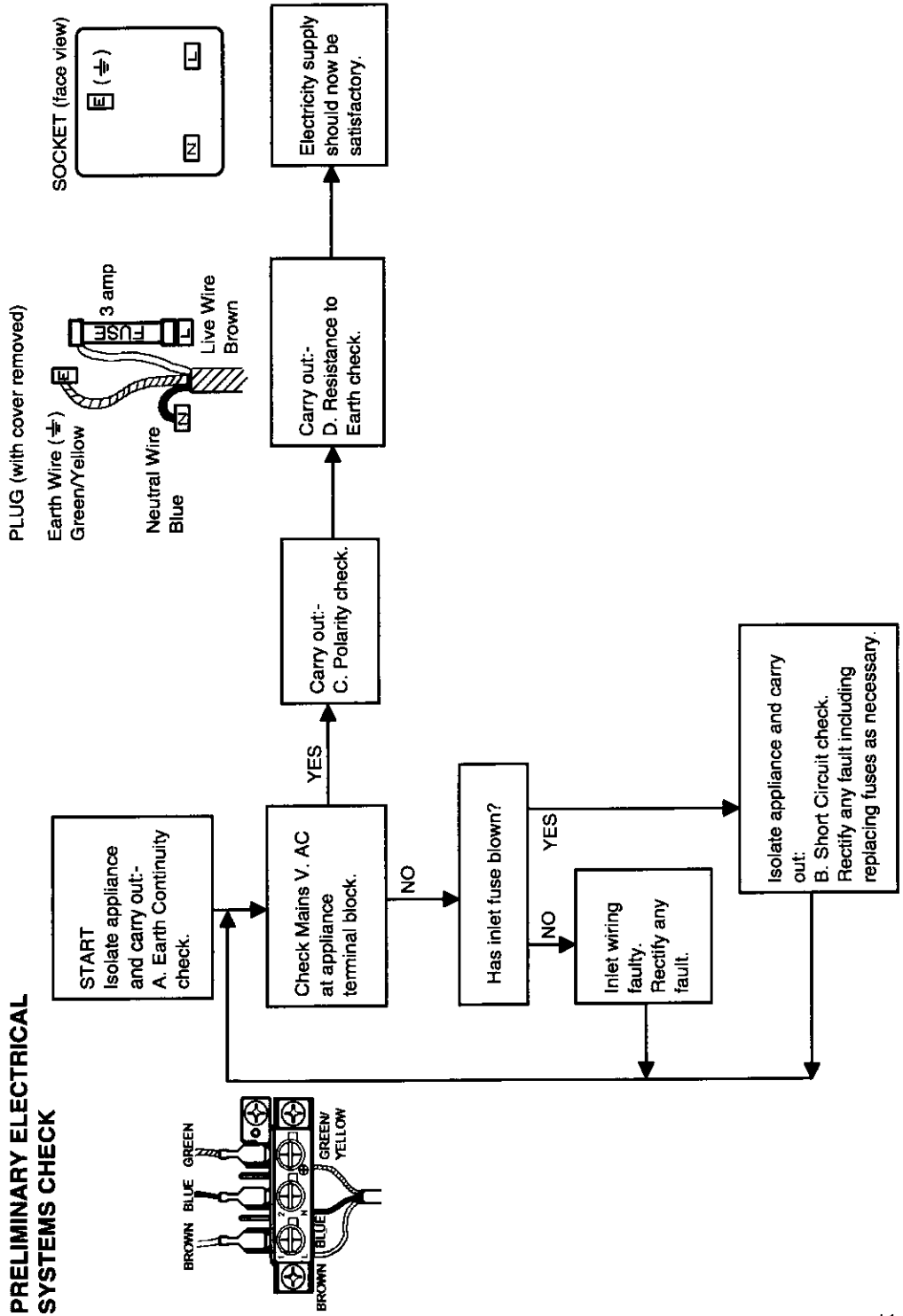
i) The thermostat knob is not interchangeable with any other tap spindle and will only fit its own bezel.

ii) The boss length of the second oven thermostat knob is longer than that of the hotplate tap knobs.

OVEN LIGHT


START
Check 240V AC. between oven lamp terminals when switch is operated.
YES
Change oven lamp.
NO
Check wiring to oven lamp and ensure satisfactory. Check all contacts are clean and tight. Check Fault Finding for timer and switches.

PRELIMINARY ELECTRICAL SYSTEMS CHECK



A. EARTH CONTINUITY CHECK - appliances must be electrically disconnected, meter set on Ω (ohms) x 1scale and adjust zero if necessary.

a) Test leads from any appliance earth point to earth pin on plug - resistance should be less than 1 Ω (ohm).
If the resistance is greater than 1 Ω (ohm) check all wires for continuity and all contacts clean and tight.
If resistance of earth is still greater than 1 Ω (ohm) then this should be reported to your supervisor.

B. SHORT CIRCUIT CHECK - appliance electrically disconnected, all switches ON (including stat).

a) meter set on Ω (ohms) x 1 scale.
Test leads from L to N in appliance terminal block - if meter reads '0' then there is a short circuit.

b) meter set on Ω (ohms) x 100 scale.
Repeat test with leads from L to E. If meter reads less than ∞ (infinity) there is a fault.

NOTE: Should it be found that the fuse has failed but no fault is indicated, a detailed continuity check (i.e. by disconnecting and checking each component) is required to trace the faulty component. It is possible that a fault could occur as a result of local burning/arcing but no fault could be found under test. However a detailed visual inspection should reveal evidence of burning around the fault.

C. POLARITY CHECK - appliance connected to mains supply and meter set on 300 V. AC. scale. Test at appliance terminal strip:

a) Test leads from L to N - meter reads approx. 240 V. AC
b) Test leads from L to E ⏚ - meter reads approx. 240 V. AC
c) Test leads from N to E ⏚ - meter reads from 0-15 V. AC.*

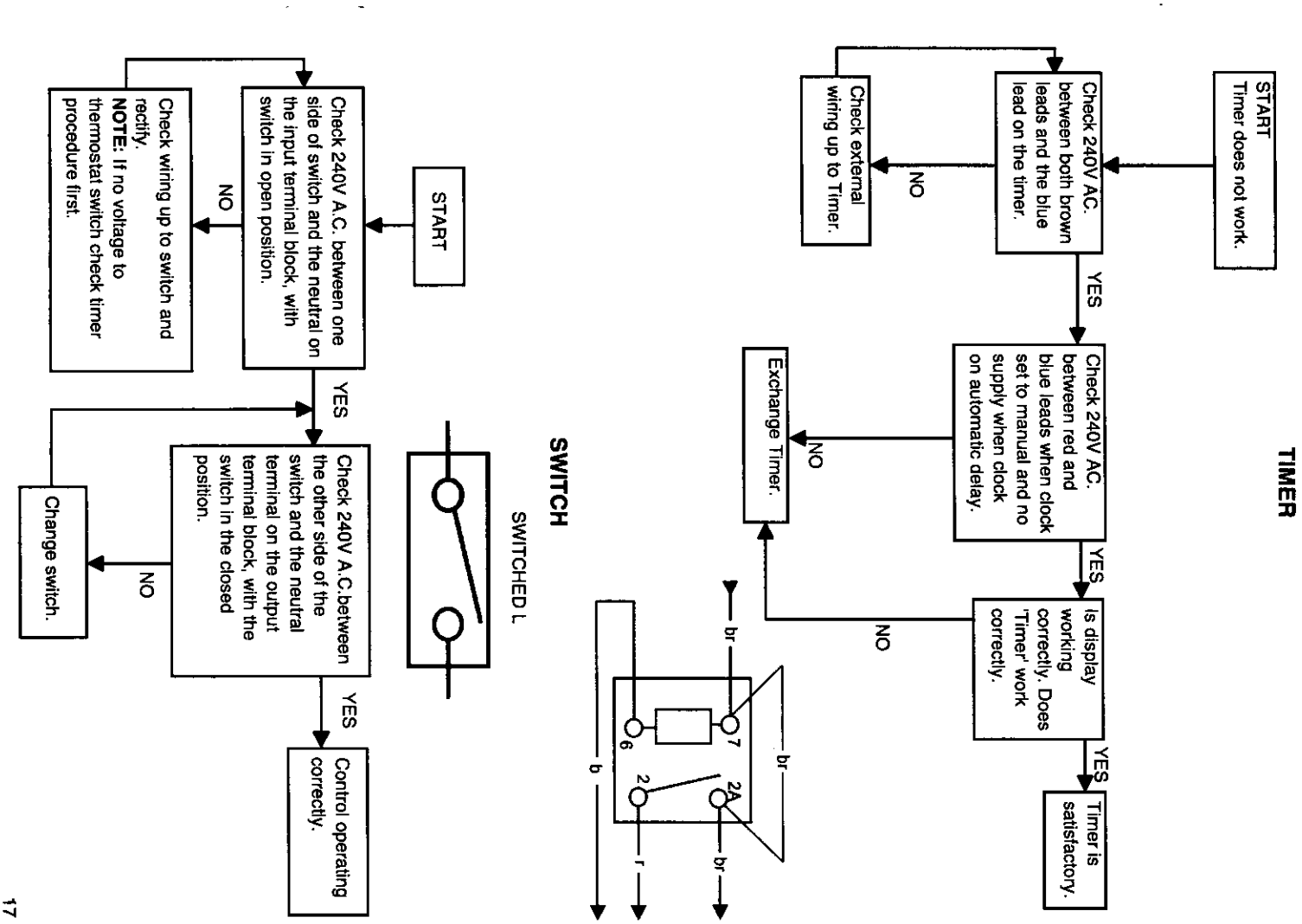
Thus the terminal marked L is the live terminal. If the low * V. AC reading is given on terminals other than N to E (⏚) there is an electrical fault.

Repeat the test at the appliance plug/inlet spur to check the wiring system up to the appliance and rectify any fault. If necessary, repeat the test at the supply system socket/spur - if the fault also occurs at this stage then there is a house system fault which requires attention by the Electricity Authority. The customer should be warned not to use the appliance until this examination has been carried out.

D. RESISTANCE TO EARTH CHECK - appliance must be disconnected from the mains supply and meter set on Ω (ohms) x 100 scale. All switches, including stat. ON - Test leads from L to E - if meter reads other than (∞) there is a fault which should be isolated. A detailed continuity check is required to trace the faulty component.

IMPORTANT

In the event of a fault on installation of the appliance this series of checks are the first electrical checks to be carried out during a fault finding procedure. On completion of the service/fault-finding task which has required the breaking and remaking of electrical connections, then the checks -A. Earth Continuity; C. Polarity and D. Resistance to Earth - must be repeated.


TIMER
START
Timer does not work.
Check 240V AC. between both brown leads and the blue lead on the timer.
NO
Check external wiring up to Timer.
YES
Check 240V AC. between red and blue leads when clock set to manual and no supply when clock on automatic delay.
NO
Exchange Timer.
YES
Is display working correctly. Does 'Timer' work correctly.
NO
YES
Timer is satisfactory.
SWITCH
SWITCHED L
START
Check 240V A.C. between one side of switch and the neutral on the input terminal block, with switch in open position.
NO
Check wiring up to switch and rectify.
NOTE: If no voltage to thermostat switch check timer procedure first.
YES
Check 240V A.C.between the other side of the switch and the neutral terminal on the output terminal block, with the switch in the closed position.
NO
Change switch.
YES
Control operating correctly.
br
b
r
br
6
7
2
2A

MAINS/SPARK IGNITION SYSTEM

START
Burner does not light.

Check gas at appliance. If necessary check polarity and earth quality.

Will burner light manually.

YES

NO

Check
a) gas supply to burner
b) switches
c) timer
d) solenoid valve
Correct any faults.

Attempt to light using ignition system - does system spark?

YES

NO

Check operation of switches and for main oven check timer.

Repeat ignition. Does igniter spark?

YES

NO

Exchange spark generator unit.

Does burner light?

YES

NO

Fault in gas system - check using relevant procedure.

Ignition system is now in working order. Instruct customer as necessary.

YES

Does oven ignition stop when burner is alight?

YES

NO

Is the electrode tip in the flame? Rectify any fault.

NO

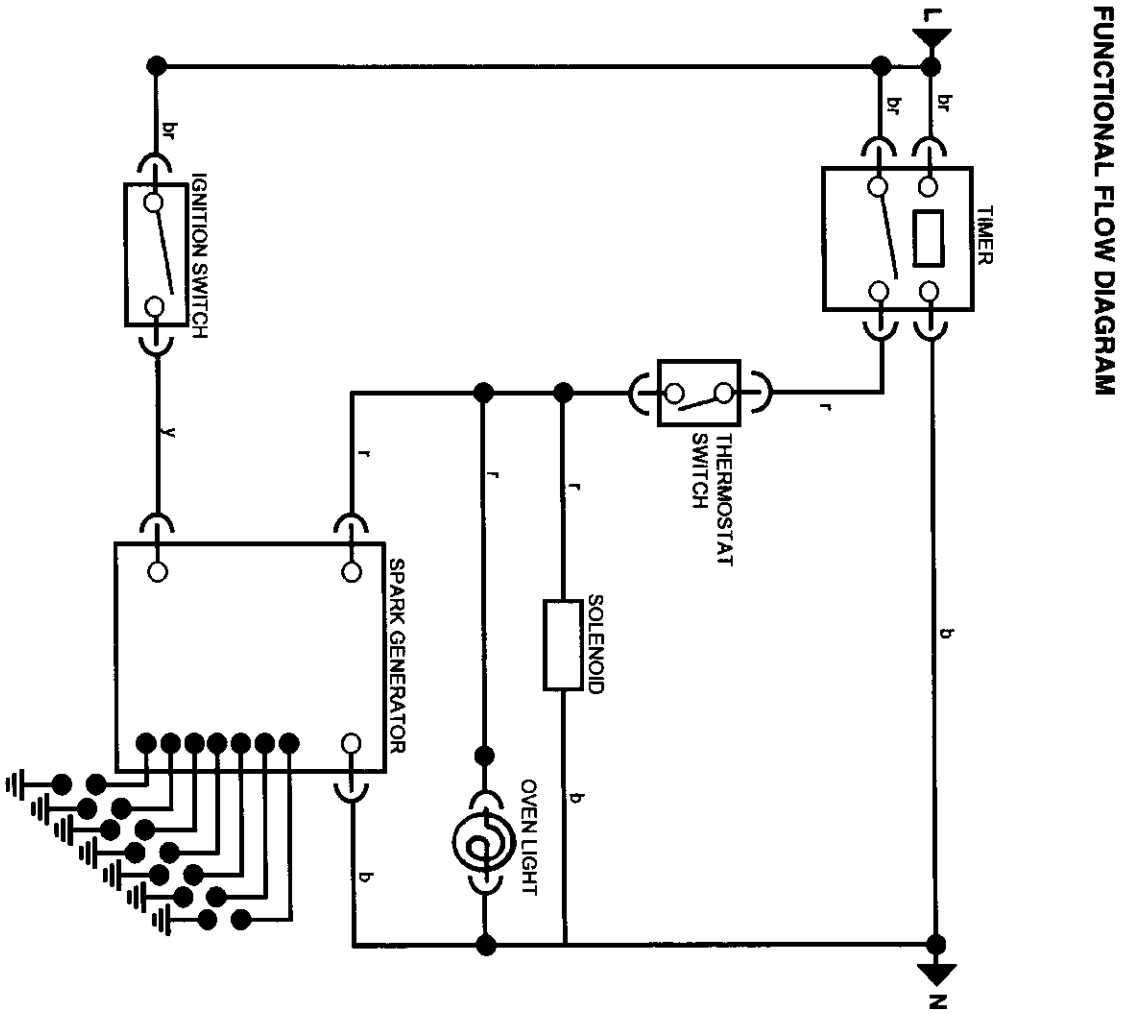
Check 240V AC input to generator between red and blue wires with ignition switch depressed, or yellow and blue wires with the thermostat on and timer set to manual. Exchange faulty wires as necessary. Ensure all connections are clean and tight.

NO

YES

(a) Check continuity of H.T. wires from generator to spark electrode.
(b) Visually check for spark tracking from H.T. component to earthed metal component (e.g. fixing bracket).
(c) Check ceramic insulator for cracks.
(d) Unplug high tension wire from spark generator - with meter on Ω x 100 scale, ensure resistance from disconnected high tension wire to any earth point in infinity (∞Ω).
(e) Check continuity from earth electrode to generator earth.
(f) Check spark gaps (3-4mm) and electrode alignment.

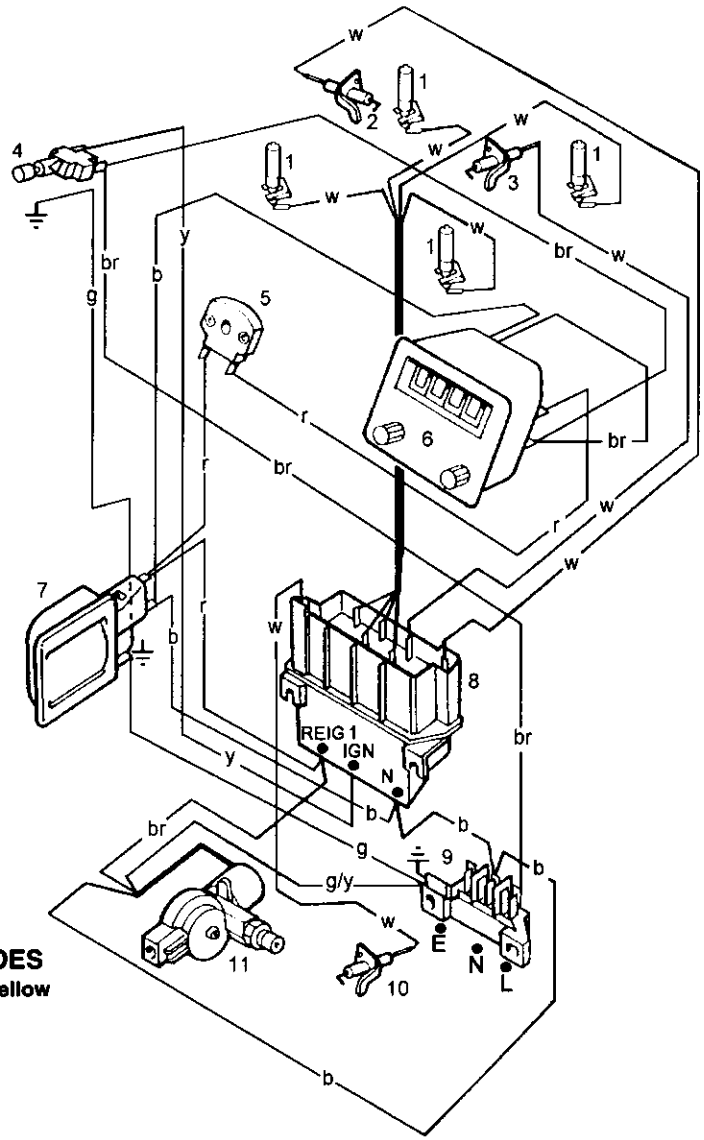
FUNCTIONAL FLOW DIAGRAM



COLOUR CODE

br brown
b blue
r red
y yellow

ILLUSTRATED WIRING DIAGRAM



COLOUR CODES

g/y	**green/yellow**
w	**white**
b	**blue**
br	**brown**
g	**green**
y	**yellow**
r	**red**

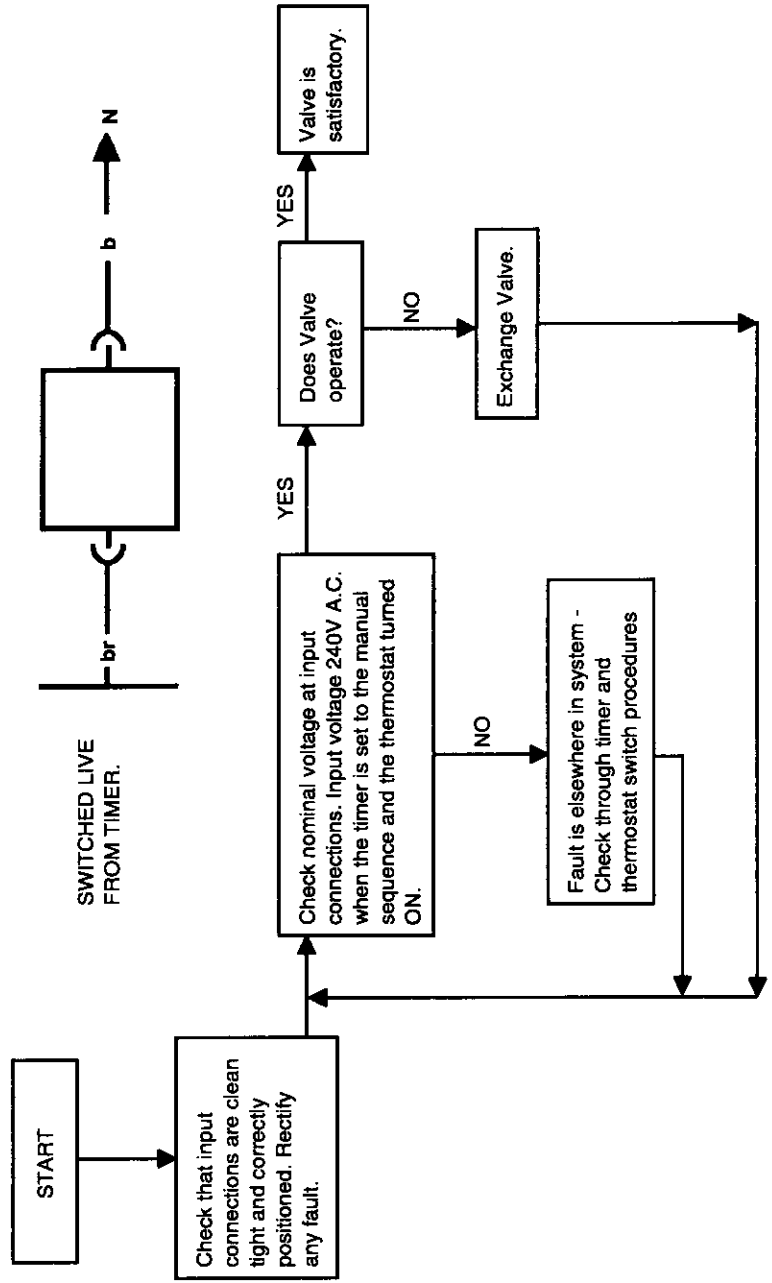
KEY TO PARTS

1. Hotplate Electrode
2. Grill Electrode
3. Second Oven Electrode
4. Ignition Switch
5. Thermostat Front Switch
6. Timer
7. Main Oven Light
8. Spark Generator
9. Terminal Block
10. Main Oven Electrode
11. Solenoid/Flame Supervision Device

FAULT FINDING GUIDE

(To be used in conjunction with British Gas Multimeter, or approved equivalent).

SOLENOID VALVE


N
b
br
SWITCHED LIVE FROM TIMER.
START
Check that input connections are clean tight and correctly positioned. Rectify any fault.
Check nominal voltage at input connections. Input voltage 240V A.C. when the timer is set to the manual sequence and the thermostat turned ON.
NO
Fault is elsewhere in system - Check through timer and thermostat switch procedures
YES
Does Valve operate?
NO
Exchange Valve.
YES
Valve is satisfactory.